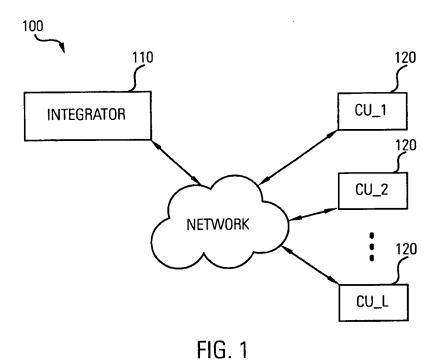


1/6



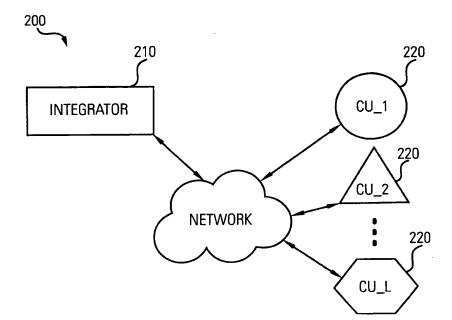


FIG. 2

2/6 -110/210 **INTEGRATOR MEMORY** <u>320</u> 330 **DATA POINTS** -340 310 INTEGRATION PROGRAM **PROCESSOR** DATA SPLITTER (DS) ı 348 **GPVDU GSSDU** 324 COMMUNICATION TO NETWORK INTERFACE

FIG. 3 -120/220 **COMPUTING UNIT** 430 **LOCAL DATA MEMORY** 438 410 **COMPUTING PROGRAM PROCESSOR** LOCAL SUFFICIENT STATISTICS **DETERMINATION UNIT** 440 (LSSDU) -424 COMMUNICATION TO NETWORK **INTERFACE**

FIG. 4

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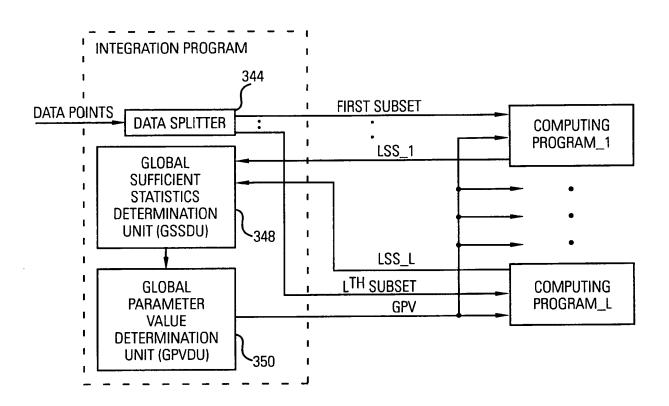


FIG. 5

Ψ.

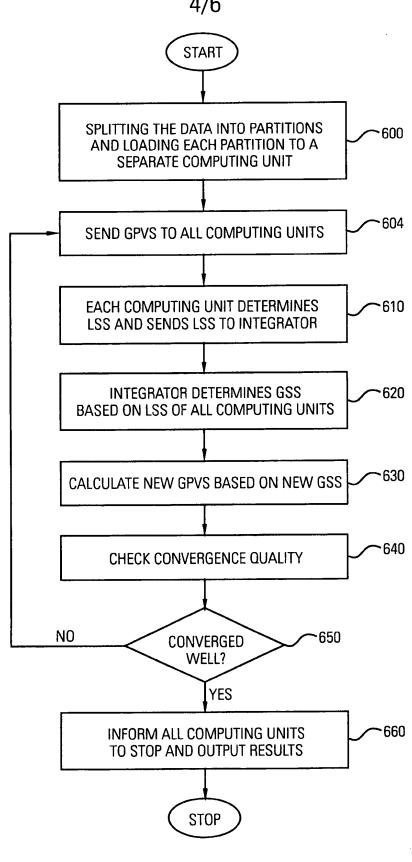


FIG. 6

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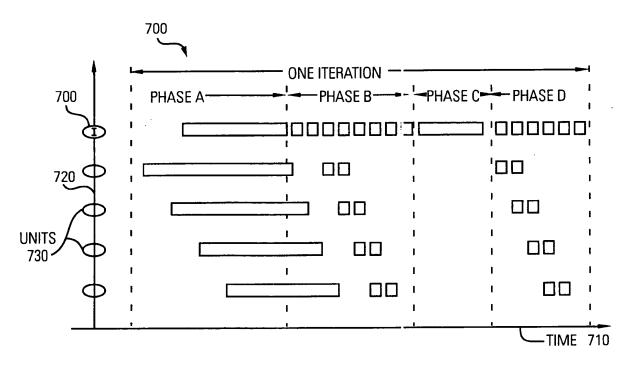


FIG. 7

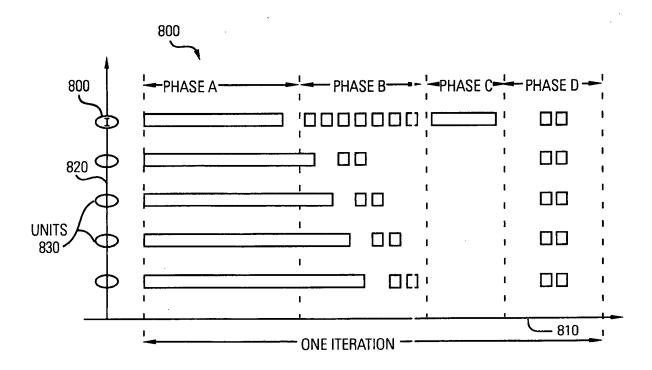


FIG. 8

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DATA CLUSTERING SYSTEM 900 -I DISTRIBUTED EXPECTATION MAXIMIZATION CLUSTERING SYSTEM (DEMCS) 910 -914 WEIGHTING PARAMETERS **EXPECTATION EXPECTATION MAXIMIZATION** MAXIMIZATION **COVARIANCE MATRIX** COMPUTING UNIT INTEGRATOR DISTRIBUTED K-MEANS CLUSTERING SYSTEM (DKMCS) 920 928 924 K-MEANS K-MEANS **CENTER LOCATIONS** COMPUTING UNIT **INTEGRATOR** DISTRIBUTED K-HARMONIC MEANS CLUSTERING SYSTEM (DKHMCS) 938 934 K-HARMONIC MEANS K-HARMONIC MEANS **CENTER LOCATIONS** COMPUTING UNIT

FIG. 9

INTEGRATOR